

**Patent Number(s):** JP58109532-A; JP90006769-B

**Title:** Polyester prodn. esp. from terephthalic acid and ethylene glycol - in presence of organic poly:magnesio-siloxane!

**Patent Assignee Name(s) and Code(s):** NIPPON ESTER CO LTD (NPEC-C)

**Derwent Primary Accession Number:** 1983-731268 [32]

**Patents Cited by Inventor:** 0

**Citing Patents:** 0

**Articles Cited by Inventor:** 0

**Patents Cited by Examiner:** 0

**Articles Cited by Examiner:** 0

**Abstract:**

Polyesters are produced from (1) terephthalic acid or bifunctional carboxylic acids comprising mainly terephthalic acid, or ester-forming cpds. derived from them, and (2) ethylene glycol or glycol component comprising mainly ethylene glycol or ester-forming cpds. derived from them in the presence of (3) organic polymagnesiosiloxane.

Polyesters of high polymerisation degrees and excellent colour tone are produced in a short period of time.

Component (3) is produced, e.g. by heating dihalosilane and magnesium hydroxide in ether solvent in a stream of nitrogen. Amt. of (3) added is 0.01-10 pts.wt. per 100 pts.wt. polyester formed. The target polyester is produced e.g. by ester-exchanging dimethyl terephthalate and ethylene glycol or esterifying terephthalic acid and ethylene glycol, and polycondensing bis-(beta-hydroxyethyl) terephthalate and/or its low polymer in the presence of catalyst, e.g. antimony cpd., titanium cpd., tin cpd., pref. antimony trioxide. Pref. polyesters have limiting viscosity of 0.4-1.2 (calculated from the soln. viscosity determined in phenol-ethane tetrachloride solvent at 20 deg.C.

**Drawing:**

**International Patent Classification:** C08G-063/22

**Derwent Class:** A23 (Polyamides, polyesters, polycarbonates, alkyds)

**Derwent Manual Code(s):** A02-B; A05-E04A; A06-A00E2; A06-D; A12-W11B

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